

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A golf ball comprising a cover,
wherein the cover is made from a cover material including
a cured product of a thermosetting resin composition containing
a thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an
isocyanate group-terminated urethane prepolymer and a polyamine
compound;

the isocyanate group-terminated urethane prepolymer contains
an isocyanate component formed by at least one diisocyanate
compound selected from the group consisting of 4,4'-
dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and
isophorone diisocyanate

the stiffness modulus of the cover material is 80 to 260 MPa;
and

the stiffness modulus and shore D hardness of the cover
material satisfy the following equation:

$$2.0 \leq A/B \leq 5.0, \quad 40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness.

2. (Previously Presented) A golf ball according to claim 1, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 4.0.$$

3. (Cancelled)

4. (Previously Presented) A golf ball according to claim 1, wherein the shore D hardness of the cover material is 45 to 55.

5. (Cancelled)

6. (Currently Amended) A method of producing a golf ball having a cover made from a material including a cured product of thermosetting resin composition comprising:

selecting a cover material satisfying the following equation:

$$2.0 \leq A/B \leq 5.0$$

$$40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness; and

covering a ball body with the cover material, wherein

the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition;

the thermosetting urethane resin composition comprises an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate; and

the stiffness modulus of the cover material is 80 to 260 MPa.

7. (Previously Presented) The method according to claim 6, wherein the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 4.0.$$

8. (Cancelled)

9. (Previously Presented) The method according to claim 6, wherein the shore D hardness of the cover material is 45 to 55.

10. (Cancelled).

11. (Currently Amended) A golf ball according to claim 1, wherein the thermosetting urethane resin composition consists essentially of ~~an~~ the isocyanate group-terminated urethane prepolymer and ~~a~~ the polyamine compound.

12. (Currently Amended) The method according to claim 6, wherein the thermosetting urethane resin composition consists essentially of ~~an~~ the isocyanate group-terminated urethane prepolymer and ~~a~~ the polyamine compound.

13. (New) A golf ball comprising a cover,
wherein the cover is made from a cover material including a cured product of a thermosetting resin composition containing a thermosetting urethane resin composition;

the thermosetting urethane resin composition consists essentially of an isocyanate group-terminated urethane prepolymer and a polyamine compound;

the isocyanate group-terminated urethane prepolymer contains an isocyanate component formed by at least one diisocyanate compound selected from the group consisting of 4,4'-

dicyclohexylmethane diisocyanate, cyclohexane diisocyanate and isophorone diisocyanate

the stiffness modulus of the cover material is 80 to 260 MPa;
and

the stiffness modulus and shore D hardness of the cover material satisfy the following equation:

$$2.0 \leq A/B \leq 5.0, \quad 40 \leq B \leq 60$$

A: Stiffness modulus (MPa)

B: Shore D hardness.